

**Aciclean VK39**

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Version: 12.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name:** Aciclean VK39

UFI: N204-40XP-6000-JPH0

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Product use:** Open plant cleaning chemical.  
For industrial use only..  
**Uses advised against:** Uses other than those identified are not recommended.

**SWED - Sector-specific worker exposure description :**

AISE\_SWED\_PW\_8a\_1  
AISE\_SWED\_IS\_1\_1  
AISE\_SWED\_IS\_8b\_1  
AISE\_SWED\_IS\_4\_1  
AISE\_SWED\_IS\_7\_4  
AISE\_SWED\_IS\_13\_3

**1.3 Details of the supplier of the safety data sheet**

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**

Diversey Ltd  
Weston Favell Centre, Northampton NN3 8PD, United Kingdom  
Tel: 01604 405311, Fax: 01604 406809  
Regulatory Email: customerservice.uk@solenis.com

**1.4 Emergency telephone number**

Seek medical advice (show the label or safety data sheet where possible)  
For medical or environmental emergency only:  
call 0800 052 0185

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Skin corrosion, Category 1B (H314)  
Serious eye damage, Category 1 (H318)  
Corrosive to metals, Category 1 (H290)

**2.2 Label elements**



**Signal word:** Danger.

Contains phosphoric acid (Phosphoric Acid), alkyl alcohol ethoxylate (Trideceth 7-10)

**Hazard statements:**

H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.

**Precautionary statements:**

P280 - Wear protective gloves, protective clothing and eye or face protection.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTRE, doctor or physician.

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**2.3 Other hazards**

No other hazards known.

Regulated explosives precursor - Control of Poisons and Explosives Precursors Regulations 2015

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
phosphoric acid	231-633-2	7664-38-2	01-211948592 4-24	Skin corrosion, Category 1B (H314) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Corrosive to metals, Category 1 (H290)		50-75
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318)		3-10
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	[4]	68909-67-1	[4]	Skin irritation, Category 2 (H315)		1-3
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Eye irritation, Category 2 (H319) Chronic aquatic toxicity, Category 3 (H412)		1-3

**Specific concentration limits**

phosphoric acid:

- Serious eye damage, Category 1 (H318) >= 25% > Eye irritation, Category 2 (H319) >= 10%
- Skin corrosion, Category 1B (H314) >= 25% > Skin irritation, Category 2 (H315) >= 10%

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

**SECTION 4: First aid measures****4.1 Description of first aid measures****General Information:**

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**Inhalation:**

Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed****Inhalation:**

No known effects or symptoms in normal use.

**Skin contact:**

Causes severe burns.

**Eye contact:**

Causes severe or permanent damage.

**Ingestion:**

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

### 6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

### 6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
phosphoric acid	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

#### DNEL/DMEL and PNEC values

##### Human exposure

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
phosphoric acid	-	-	-	0.1
alkyl alcohol ethoxylate	-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	25

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
phosphoric acid	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-,	No data available	No data available	No data available	No data available

mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates				
alkyl alcohol ethoxylate	-	-	-	-

## DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
phosphoric acid	No data available	-	No data available	-
alkyl alcohol ethoxylate	-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
phosphoric acid	-	-	2.92	1
alkyl alcohol ethoxylate	-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
phosphoric acid	-	-	0.73	-
alkyl alcohol ethoxylate	-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

## Environmental exposure

## Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
phosphoric acid	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

## Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
phosphoric acid	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

## Appropriate engineering controls:

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

## Appropriate organisational controls:

Avoid direct contact and/or splashes where possible. Train personnel.

## REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic application in a dedicated closed system	AISE_SWED_IS_1_1	IS	PROC 1	480	ERC4
Automatic transfer and dilution	AISE_SWED_IS_8b_1	IS	PROC 8b	60	ERC4
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a

## Personal protective equipment

## Eye / face protection:

Safety glasses or goggles (EN 16321 / EN 166). The use of a full-face shield or other full-face

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<b>Hand protection:</b>	protection is strongly recommended when handling open containers or if splashes may occur. Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: $\geq 480$ min Material thickness: $\geq 0.7$ mm Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: $\geq 30$ min Material thickness: $\geq 0.4$ mm In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
<b>Body protection:</b>	Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).
<b>Respiratory protection:</b>	If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.
<b>Environmental exposure controls:</b>	Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 5

<b>Appropriate engineering controls:</b>	Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles.
<b>Appropriate organisational controls:</b>	Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

**REACH use scenarios considered for the diluted product:**

	SWED	LCS	PROC	Duration (min)	ERC
Manual application by dipping, soaking, pouring	AISE_SWED_IS_13_3	IS	PROC 13	240	ERC4
Automatic application in a dedicated system	AISE_SWED_IS_4_1	IS	PROC 4	480	ERC8a
Foam spraying	AISE_SWED_IS_7_4	IS	PROC 7	480	ERC4

**Personal protective equipment**

<b>Eye / face protection:</b>	Safety glasses or goggles (EN 16321 / EN 166) are always recommended for foam applications.
<b>Hand protection:</b>	Chemical-resistant protective gloves (EN 374) are always recommended for foam applications. Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: $\geq 480$ min Material thickness: $\geq 0.7$ mm In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
<b>Body protection:</b>	No special requirements under normal use conditions.
<b>Respiratory protection:</b>	No special requirements under normal use conditions.
<b>Environmental exposure controls:</b>	No special requirements under normal use conditions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

	Method / remark
<b>Physical state:</b> Liquid	
<b>Colour:</b> Clear , Yellow	
<b>Odour:</b> Product specific	
<b>Odour threshold:</b> Not applicable	
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
phosphoric acid	158	Method not given	1013
alkyl alcohol ethoxylate	> 200	Method not given	
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	> 100	Method not given	

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alkyl alcohol ethoxylate	No data available		
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## Method / remark

**Flammability (solid, gas):** Not applicable to liquids**Flammability (liquid):** Not flammable.**Flash point (°C):** > 100 °C**Sustained combustion:** Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

**Lower and upper explosion limit/flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

closed cup

## Method / remark

**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**pH:** =< 2 (neat)**Dilution pH:** < 2 (5 %)**Kinematic viscosity:** ≈ 15 mPa.s (20 °C)**Solubility in / Miscibility with water:** Fully miscible

ISO 4316

ISO 4316

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
phosphoric acid	Soluble		
alkyl alcohol ethoxylate	Soluble	Method not given	20
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available		
alkyl alcohol ethoxylate	Partly soluble	Method not given	20

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
phosphoric acid	4	Method not given	20
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available		
alkyl alcohol ethoxylate	< 100		

## Method / remark

**Relative density:** ≈ 1.39 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

## 9.2 Other information

## 9.2.1 Information with regard to physical hazard classes

**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising.**Corrosion to metals:** Corrosive

## 9.2.2 Other safety characteristics

No other relevant information available.

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

## 10.2 Chemical stability

Stable under normal storage and use conditions.

## 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

## 10.4 Conditions to avoid

None known under normal storage and use conditions.

## 10.5 Incompatible materials

May be corrosive to metals. Reacts with alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixture data: .

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

#### Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
phosphoric acid	LD <sub>50</sub>	> 300-5000	Rat	OECD 423 (EU B.1 tris)		2600
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 300-2000	Rat	OECD 423 (EU B.1 tris)		Not established
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rat	OECD 423 (EU B.1 tris)		Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
phosphoric acid	LD <sub>50</sub>	2740	Rabbit	Method not given		2740
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rabbit	Method not given		Not established
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				Not established
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rat	Method not given		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	LC <sub>50</sub>	850	Rat	Method not given	2
alkyl alcohol ethoxylate		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available			
alkyl alcohol ethoxylate		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
phosphoric acid	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established

#### Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	Corrosive	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	Irritant		Method not given	
alkyl alcohol ethoxylate	Not irritant	Rabbit	Weight of evidence Non guideline test	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	Severe damage	Rabbit	Method not given	

alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available			
alkyl alcohol ethoxylate	Severe damage	Rabbit	Weight of evidence Non guideline test	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	No data available			
alkyl alcohol ethoxylate	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available			
alkyl alcohol ethoxylate	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
phosphoric acid	Not sensitising	Human	Human experience	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig		

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
phosphoric acid	No data available			
alkyl alcohol ethoxylate	No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available			
alkyl alcohol ethoxylate	No data available			

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
phosphoric acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No data available	
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available		No data available	
alkyl alcohol ethoxylate	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	Weight of evidence

## Carcinogenicity

Ingredient(s)	Effect
phosphoric acid	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
phosphoric acid	NOAEL	Developmental toxicity	410	Rat	OECD 422, oral	10 day(s)	No evidence for reproductive toxicity No evidence for developmental toxicity
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates			No data available				
alkyl alcohol ethoxylate			-		Weight of evidence		No evidence for reproductive toxicity No evidence for teratogenic effects



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## Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid	NOAEL	250	Rat	OECD 422, oral		
alkyl alcohol ethoxylate		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				
alkyl alcohol ethoxylate		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid		No data available				
alkyl alcohol ethoxylate		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				
alkyl alcohol ethoxylate		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
phosphoric acid		No data available				
alkyl alcohol ethoxylate		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				
alkyl alcohol ethoxylate		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
phosphoric acid			No data available					
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates			No data available					
alkyl alcohol ethoxylate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
phosphoric acid	No data available
alkyl alcohol ethoxylate	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available
alkyl alcohol ethoxylate	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
phosphoric acid	No data available
alkyl alcohol ethoxylate	Not applicable
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available
alkyl alcohol ethoxylate	Not applicable

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**

No other relevant information available.

**SECTION 12: Ecological information****12.1 Toxicity**

No data is available on the mixture .

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	LC <sub>50</sub>	138	<i>Gambusia affinis</i>	Method not given	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	> 1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available			
alkyl alcohol ethoxylate	LC <sub>50</sub>	> 1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Daphnia magna Straus</i>	OECD 202, static	48
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	EC <sub>50</sub>	> 1 - 10	<i>Daphnia magna Straus</i>	Read across	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 1 - 10	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
phosphoric acid	EC <sub>50</sub>	> 100	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available			
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
phosphoric acid		No data available			
alkyl alcohol ethoxylate		No data available			
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available			
alkyl alcohol ethoxylate		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
phosphoric acid	EC <sub>50</sub>	270	<i>Activated sludge</i>	Method not given	
alkyl alcohol ethoxylate	EC <sub>10</sub>	> 10000	<i>Activated sludge</i>	DIN 38412 / Part 8	17 hour(s)
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and		No data			

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C18-unsatd. alkyl) ethers, phosphates		available			
alkyl alcohol ethoxylate	EC <sub>50</sub>	140	Activated sludge	Weight of evidence	17 hour(s)

## Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
phosphoric acid		No data available				
alkyl alcohol ethoxylate		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				
alkyl alcohol ethoxylate	NOEC	1.73	Not specified	QSAR Weight of evidence	96 hour(s)	

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
phosphoric acid		No data available				
alkyl alcohol ethoxylate		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				
alkyl alcohol ethoxylate	NOEC	1.36	<i>Daphnia magna</i> Not specified	QSAR Weight of evidence	21 day(s)	

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				
alkyl alcohol ethoxylate		No data available				
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		No data available				
alkyl alcohol ethoxylate		No data available				

## Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				
alkyl alcohol ethoxylate	NOEC	220	<i>Eisenia fetida</i>			
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 1000	<i>Eisenia fetida</i>	OECD 207	14	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				
alkyl alcohol ethoxylate	NOEC	10	<i>Lepidium sativum</i>	OECD 208		
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 100	<i>Triticum aestivum</i> <i>Lepidium sativum</i> <i>Brassica alba</i>	OECD 208		

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				

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Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
phosphoric acid		No data available				

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
phosphoric acid	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
phosphoric acid	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
phosphoric acid		No data available			

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
phosphoric acid					Not applicable (inorganic substance)
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates		Oxygen depletion	> 60 % in 28 day(s)	Method not given	Readily biodegradable
alkyl alcohol ethoxylate		CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
phosphoric acid					No data available
alkyl alcohol ethoxylate					Biodegradable

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
phosphoric acid					No data available

**12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
phosphoric acid	No data available		No bioaccumulation expected	
alkyl alcohol ethoxylate	4.09	QSAR	No bioaccumulation expected	
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available		No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available		Not relevant, does not bioaccumulate	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
phosphoric acid	No data available			No bioaccumulation expected	
alkyl alcohol ethoxylate	-			No bioaccumulation expected	
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-	No data available				

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hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates					
alkyl alcohol ethoxylate	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
phosphoric acid	No data available				Potential for mobility in soil, soluble in water
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono(C8-18 and C18-unsatd. alkyl) ethers, phosphates	No data available				
alkyl alcohol ethoxylate	No data available				

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Endocrine disrupting properties**

Endocrine disrupting properties - Environmental effects, if available:

**12.7 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:**

20 01 14\* - acids.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information****Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number or ID number:** 1805**14.2 UN proper shipping name:**

Phosphoric acid, solution

**14.3 Transport hazard class(es):**

Transport hazard class (and subsidiary risks): 8

**14.4 Packing group:** III**14.5 Environmental hazards:**

Environmentally hazardous: No

Marine pollutant: No

**14.6 Special precautions for user:** None known.**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.**Other relevant information:****ADR**

Classification code: C1

Tunnel restriction code: (E)

Hazard identification number: 80

**IMO/IMDG**

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations :

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code
- Control of Poisons and Explosives Precursors Regulations 2015

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

#### Ingredients according to Detergents Regulation

non-ionic surfactants	5 - 15 %
anionic surfactants	< 5 %

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Comah - classification:** Not classified

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MSDS1617

**Version:** 12.0

**Revision:** 2024-08-07

#### Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006. This data sheet contains changes from the previous version in section(s): 2, 3, 4, 8, 9, 16

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

#### Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.

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- H319 - Causes serious eye irritation.
- H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**